Testing to Support The Army Transformation

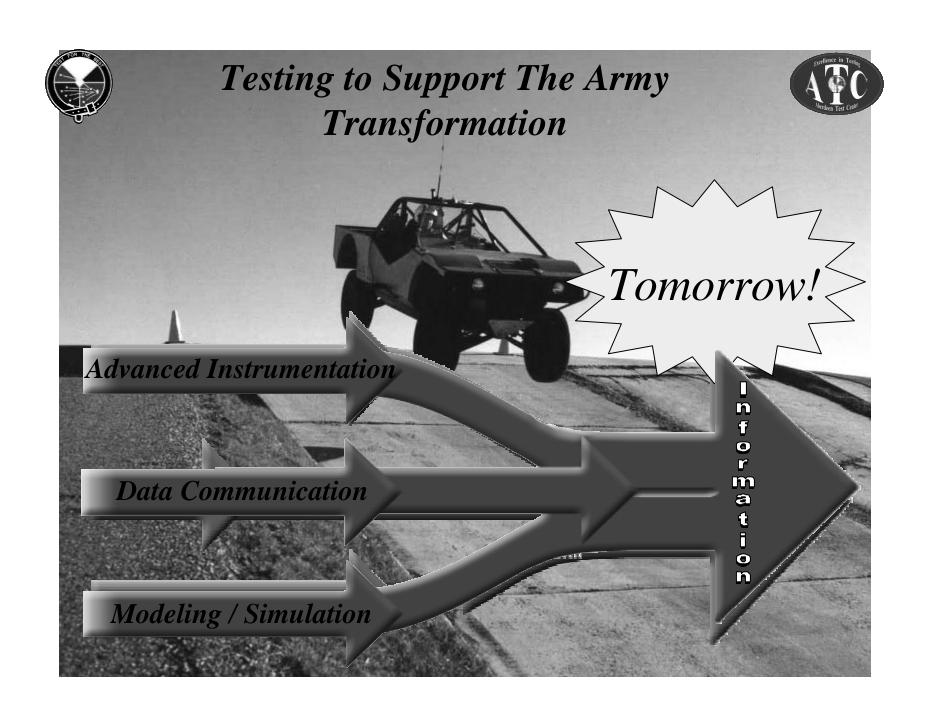


COL Andrew G. Ellis Commander Aberdeen Test Center

Testing to Support The Army Transformation



COL Andrew G. Ellis Commander Aberdeen Test Center





Advanced Instrumentation (Contraction)



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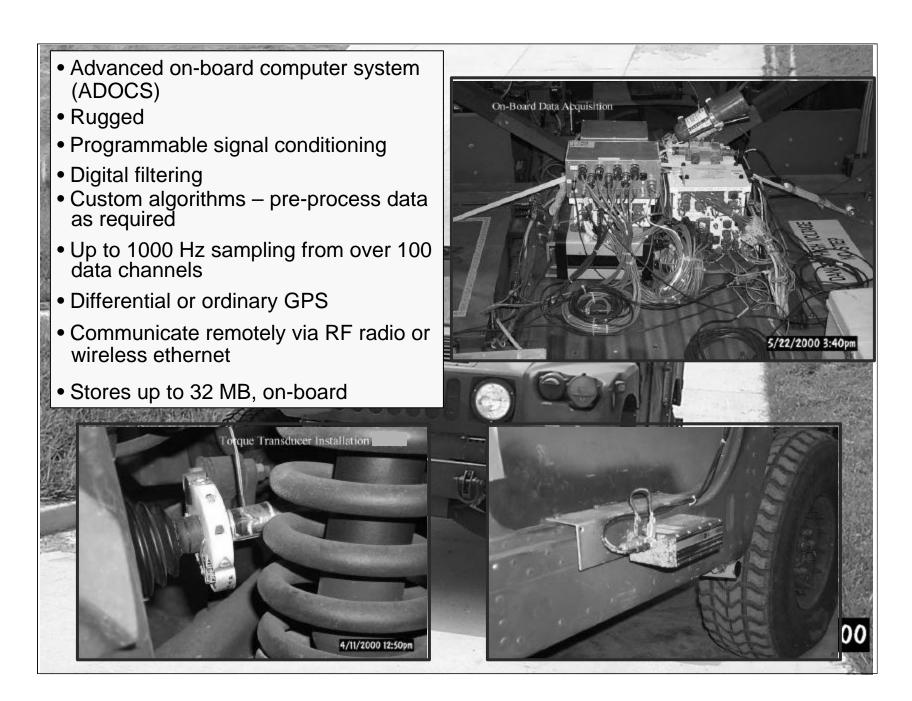
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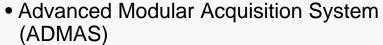
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Instrumentation

Data Communication

Modeling / Simulation





- Rugged
- Operates through kernel device
- Distributed devices integrate CAN, J1708, and other bus data with analog data
- 100,000 Hz sampling, per device
- 440 Mb+ in removable Flash memory
- Each device is a web server, can be polled/data can be harvested via satellite
- Integrated with differential / ordinary
 GPS







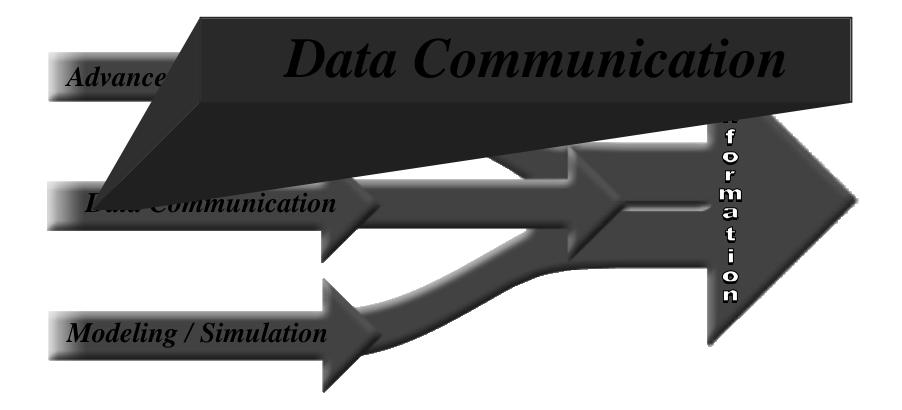


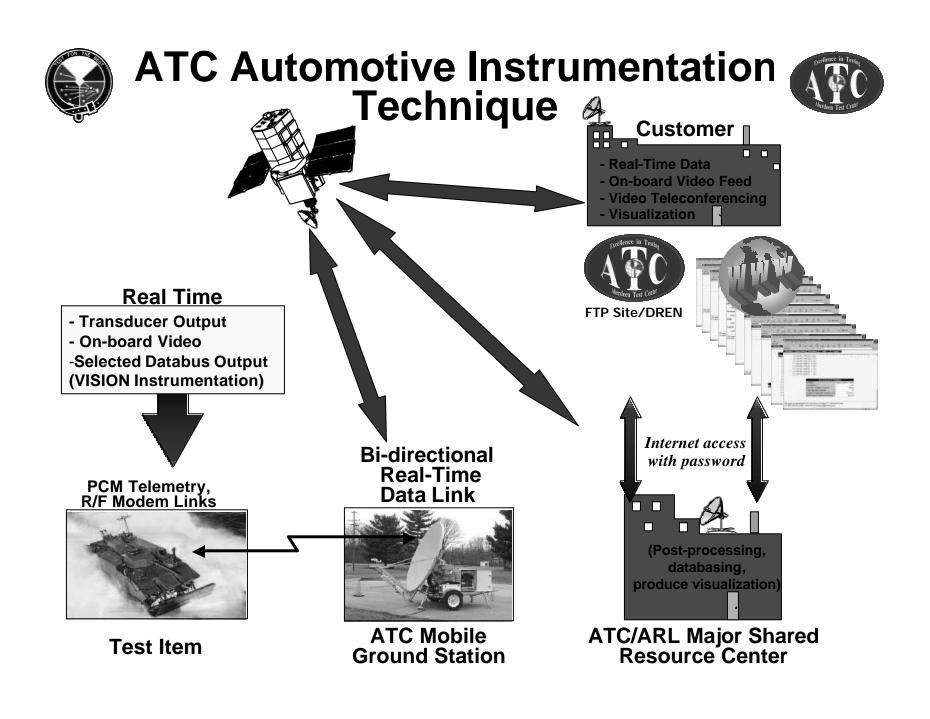














ATC Satellite Communications System







ATC Satellite Communications
System







Secure Data Access via the World Wide Web







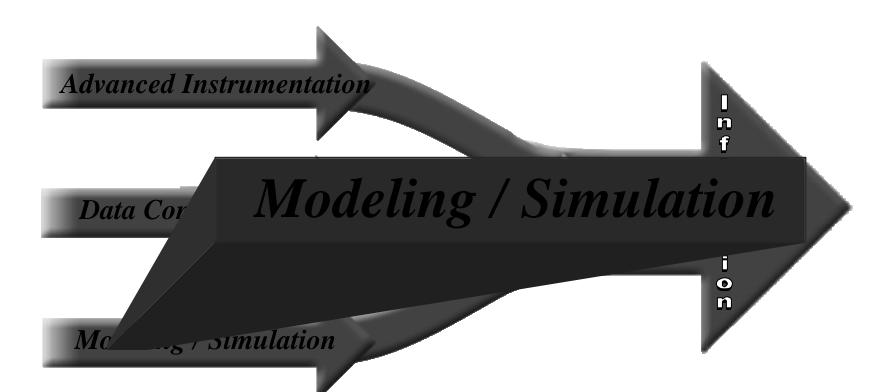
Secure Data Access via the World Wide Web



nternet Explorer or Netscape Access u Connect 1 supercomputer • Statistical calculations, data histograms, data limit searches Meets all DoD Fully 128-bit encryption computer security requirements! Secure ID password authentication econds Condition Occurred Phase level security This page was generated in 16.0 seconds on October 27, 2000 at 08:30:48.





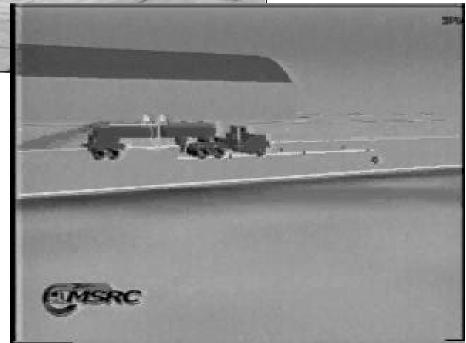














MTS Systems Corporation



Roadway Simulator





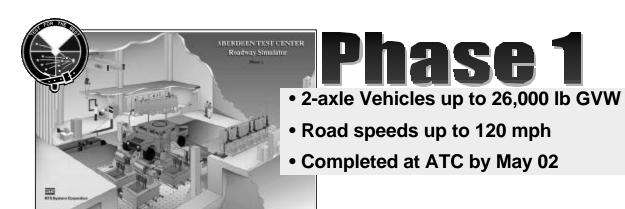


Roadway Simulator

- 3-Phase CTEIP-funded program
- Tests steering, handling, braking, stability, powertrain performance, etc...
- Robotic driver controls

Brings the roadway into a controlled laboratory environment!

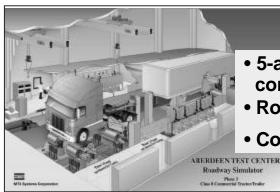






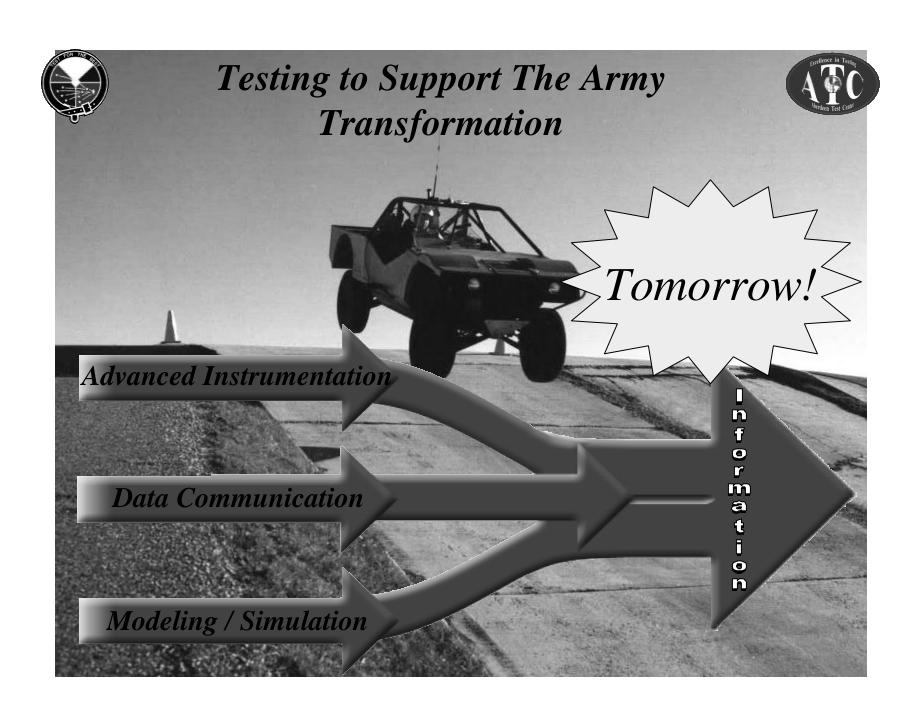


- 3-axle vehicles up to 60,000 GVW
- Road speeds up to 70 mph
- Completed at ATC by May 03



Phase 3

- 5-axle truck/trailer or tractor/semitrailer combinations up to 80,000 lb GCVW
- Road speeds up to 70 mph
- Completed at ATC by May 04









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